

WLCL-LD



Ratings	
Shape / Structure	General-purpose Limit switches
service life	General type
Operating mechanism	Snap action
Actuator	Adjustable rod lever (3 dia., Stainless steel rod, 25 to 141 mm)
Frequency	50/60 Hz
Leakage current	Approx. 0.5 mA
Switching mechanism	Self-reset mechanism
Contact configuration	2-circuit double break type
Contact form	1a1b
Load	General load
Ratings (AC): Non-Inductive load	Rated voltage: 115 VAC, Resistive load: 10 A (NC) 10 A (NO), Lamp load: 3 A (NC) 1.5 A (NO)
Ratings (AC): Inductive load	Rated voltage: 115 VAC, Inductive load: 10 A (NC) 10 A (NO), Motor load: 5 A (NC) 2.5 A (NO)
Ratings (DC): Non-Inductive load	Rated voltage: 12 VDC, Resistive load: 10 A (NC) 10 A (NO), Lamp load: 6 A (NC) 3 A (NO) Rated voltage: 24 VDC, Resistive load: 6 A (NC) 6 A (NO), Lamp load: 4 A (NC) 3 A (NO) Rated voltage: 48 VDC, Resistive load: 3 A (NC) 3 A (NO), Lamp load: 2 A (NC) 1.5 A (NO) Rated voltage: 115 VDC, Resistive load: 0.8 A (NC) 0.8 A (NO), Lamp load: 0.2 A (NC) 0.2 A (NO)
Ratings (DC): Inductive load	Rated voltage: 12 VDC, Inductive load: 10 A (NC) 10 A (NO), Motor load: 6 A (NC) 6 A (NO) Rated voltage: 24 VDC, Inductive load: 6 A (NC) 6 A (NO), Motor load: 4 A (NC) 4 A (NO) Rated voltage: 48 VDC, Inductive load: 3 A (NC) 3 A (NO), Motor load: 2 A (NC) 2 A (NO) Rated voltage: 115 VDC, Inductive load: 0.8 A (NC) 0.8 A (NO), Motor load: 0.2 A (NC) 0.2 A (NO)
Explanation	The above values indicate the steady-state current. Lamp load has an inrush current of 10 times the steady-state current. Inductive load has a power factor of 0.4 Min. (AC) and a time constant of 7 ms Max. (DC). Motor load has an inrush current of 6 times the steady-state current.
Inrush current	NC: 30 A NO: 20 A
Indicator	LED (Possible to change between Light when operating and Light when not operating.) Voltage: Common use for AC/DC 10 to 115 V Leakage current: Approx. 0.5 mA

Conduit size	G1/2
Earth terminal	Without ground terminal
Ambient temperature	Operating: -10 CEL to 80 CEL (with no icing or condensation)
Ambient humidity	Operating: 35%RH to 95%RH (with no icing or condensation)
Characteristics	
Permissible operating speed	1 mm/s to 1 m/s
Permissible operating frequency (Mechanically)	120 operations / 1 minute Max.
Permissible operating frequency (Electrically)	30 operations / 1 minute Max.
Contact resistance	25 m Ohm Max. (Initial value) (Measuring method is contact resistance meter.)
Insulation resistance	Between live-metallic part and ground: 100 M Ohm Min. Between each terminal and non-live-metallic part: 100 M Ohm Min. (Condition, at 500 VDC Megger)
Dielectric strength	Between live-metallic part and ground: 2,200 VAC Between each terminal and non-live-metallic part: 2,200 VAC (Condition, 50/60 Hz for 1 min)
Durability (Mechanically)	15,000,000 operations Min. (No load) (Temperature, Humidity conditions: 5 CEL to 35 CEL, 40 %RH to 70 %RH)
Durability (Electrically)	750,000 operations Min. (Resistive load 10 A at 115 VAC) (Temperature, Humidity conditions: 5 CEL to 35 CEL, 40 %RH to 70 %RH)
Vibration resistance (Malfunction)	Vibration frequency range: 10 to 55 Hz, Double amplitude: 1.5 mm, Contact opening: 1 ms Max. at the free position and the total travel position.
Shock resistance (Destruction)	1,000 m/s ²
Shock resistance (Malfunction)	Contact opening is 1 ms Max. at the free position and the total travel position at 300 m/s ² .
Degree of protection	IEC60529 (JEM): IP67 NEMA250: Type3,4,13
Applicable standard (UL)	Standard No.: UL508 File number: E76675
Applicable standard (CSA)	Standard No.: C22.2 NO.14 File number: LR45746
Applicable standard (CCC(CQC))	Standard No.: GB14048.5 File number: 2003010305032365
Mounting specification	Front mounting, Back mounting
Operating characteristics	
Operating Force (OF)	Standard value 1.39 N Max.
Release Force (RF)	Standard value 0.27 N Min.
Pre-Travel (PT)	Standard value 15 +/- 5 DEG
Over-Travel (OT)	Standard value 30 DEG Min.
Movement Differential (MD)	Standard value 12 DEG Max.
Condition of operating characteristics	When the rod length is 140 mm

Four, $5.2^{+0.2}_0$ dia. mounting holes or M5 taps

